

AMENDMENTS TO THE SPECIFICATION

Please delete the paragraph beginning at line 32 on page 16, and replace it with the following amended paragraph:

FIG. 10 is a diagram similar to FIG. 9 but showing the ~~pari~~ pair of coupled network controllers interfaced to a common relatively high data rate system having multiple hosts (e.g.) a local area network of the Ethernet type or equivalent e.g. fiber optic type.

Please delete the paragraph beginning at line 18 on page 17, and replace it with the following amended paragraph:

FIG. 14 shows a diagrammatic illustration of the signal processing for two of four ~~paris~~ pairs of communication ports of the multiple base adapter of the RF data collection system illustrated in FIG. 8.

Please cancel the ABSTRACT and replace it with the following amended ABSTRACT:

~~In an exemplary communication system, a multiplicity of mobile terminals are to share a communication link with a host processor communicating through base transceivers. The mobile terminals evaluate communication signals being transmitted to one or more of the mobile transceivers and according to the evaluation of such signals, each mobile terminal independently selects a relatively high data rate or a lower more conservative data rate for communication with the host processor. The mobile terminal enters a dormant state after a fixed period elapses during which the mobile unit is not engaged in communication with the base station. Periodically, the mobile terminal reenters active state in receive mode for a brief interval and if no polling signal or other message directed to the mobile terminal is present, the mobile terminal returns to dormant state. When a signal is directed to the mobile terminal, the mobile terminal remains in active receive mode until a fixed period after a communication session is~~

~~completed and then returns to dormant/active cycling. A base station utilizing a dormant polling protocol transmits polling sequences to a plurality of remote transceivers during periods of heaving loading. During periods of heavy loading, the base station stops polling and enters into a dormant state, listening for communication requests from the remote transceivers. Upon receiving such a request, the base station immediately responds by servicing the requesting remote transceiver. In this way, the base station provides optimized utilization of the communication channel during periods of heavy and light loading conditions.~~ The present invention relates to a system and method for providing radio frequency communication of data collected by a multiplicity of mobile transceiver units to a base transceiver. The system comprises the base transceiver and the mobile transceiver units being selectively operable at limited and increased data rates. The mobile units respond to transmissions by the base transceiver, and have means to evaluate the feasibility of responding at the increased data rate. The base transceiver effects a communication link with one or more mobile units. The mobile units for which a communication link has not been established receives the transmissions of the mobile units with which a communication link has been established. The mobile units evaluate for consistent reception of transmissions to one or more transceiver units. The mobile units which consistently receive transmissions at the increased data rate respond at the increased data rate when communication is directed thereto.

A copy of the amended ABSTRACT without strikeouts or underline is attached hereto as a separate page following page 13 of this Amendment.